

# PFAS Marinette, Peshtigo, and Surrounding Communities

## Listening Session 13



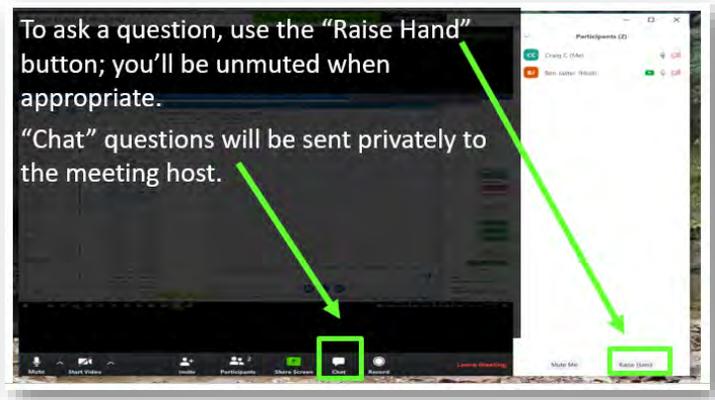
WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

1

## What to Expect during this Listening Session

### Zoom Meeting Logistics

- All attendees are automatically muted when they join the call
- Joining by **web**:
  - **During the presentation** – use 'chat' feature to type questions
  - **After presentation** – use the 'chat' feature *or* 'raise hand' feature to request to be unmuted to ask a call
- Joining by **phone**:
  - \*6 mute/unmute
  - \*9 raise hand



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

2

# Team Members

## DNR - Remediation and Redevelopment

- Bridget Kelly, Emerging Contaminants
- Christine Haag, Director
- Alyssa Sellwood, Complex Sites Project Manager
- Jodie Peotter, Brownfields Outreach Section Chief
- Trevor Nobile, Field Operations Director
- Jenna Soyer, Program and Policy Operations Director

## DNR - Drinking Water And Groundwater

- Kyle Burton, Field Operations Director

## DNR - Water Quality

- Heidi Schmitt-Marquez, NER Supervisor
- Alexis Peter, Wastewater Specialist
- Laura Gerold, Wastewater Engineer
- Adrian Stocks, Director

## Department of Health Services

- Brita Kilburg-Basnyat, Toxicologist
- Amanda Koch, Health Educator

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

3

# Staying Connected

## Today - 13th in series of sessions

- Meetings every other month
- *Previous meeting recordings available*
- Next meeting in May

## Website and FAQs

- **DNR homepage** → search 'PFAS Marinette'
- **Sign-up for updates** →

**SUBSCRIBE** to Marinette and Peshtigo area PFAS contamination updates.

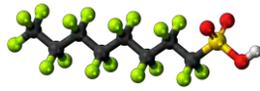
## Other options for contacting DNR

- Call (888-626-3244) or
- email [DNRJCIPFAS@wisconsin.gov](mailto:DNRJCIPFAS@wisconsin.gov)

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

4





# Welcome and Agenda

## Presentation:

- Community Questions
- Site Investigation Updates
- Updates on DNR Private Potable Well Sampling in Expanded Site Investigation Area

## Listening Session:

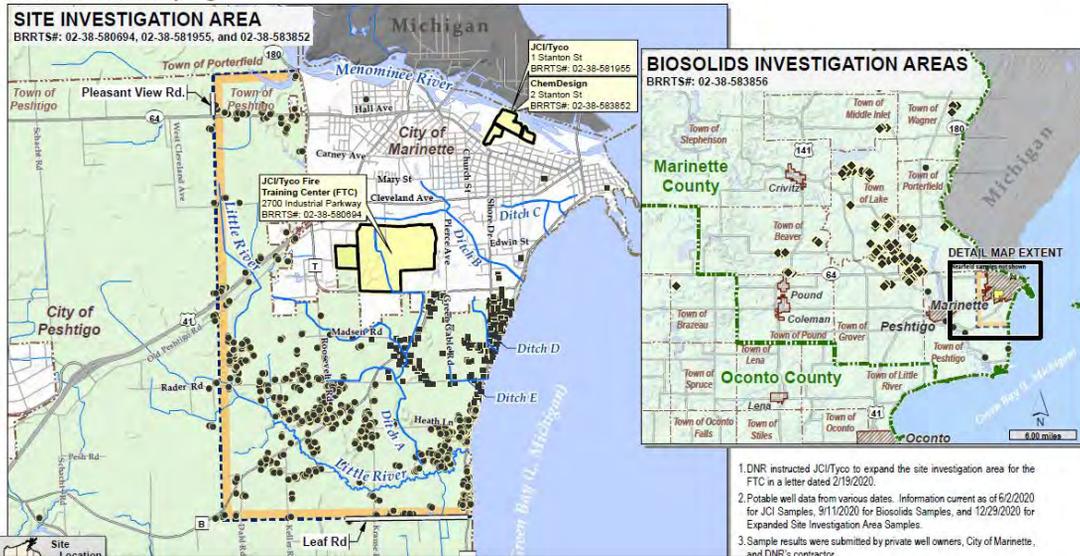
- Question + Answer Session



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

5

## Marinette, Peshtigo and Surrounding Areas PFAS Investigations Potable Well Sampling



6

# Community Questions

7



## JCI/Tyco Class Action Settlement

- DNR not a party to the settlement
- DNR cannot intervene
- DNR cannot provide legal advice to individuals
- For more information, refer to message sent email subscription list March 15 and posted to website

8



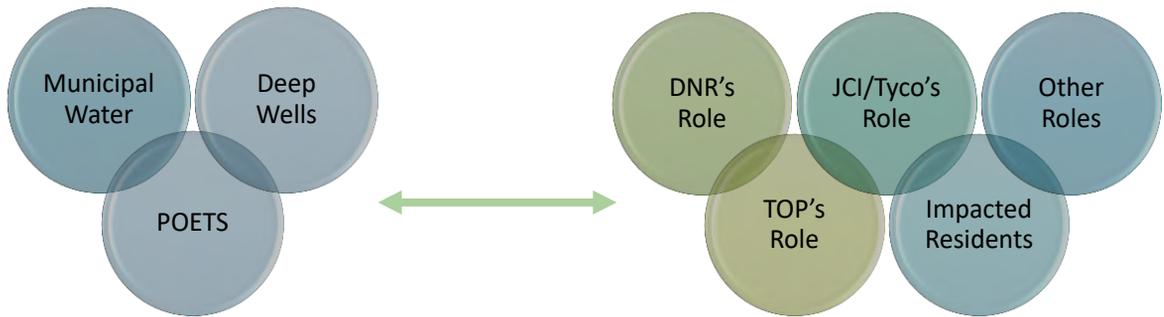
**Responsible Party - Expanded Site Investigation Area**

- DNR sampling wells due to JCI/Tyco refusal
- JCI/Tyco remains responsible
- If JCI/Tyco does not take required actions:
  - DNR will continue to provide emergency replacement water by extending 6-month water supply to those with impacted wells in this area

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV



# Long Term Water Options

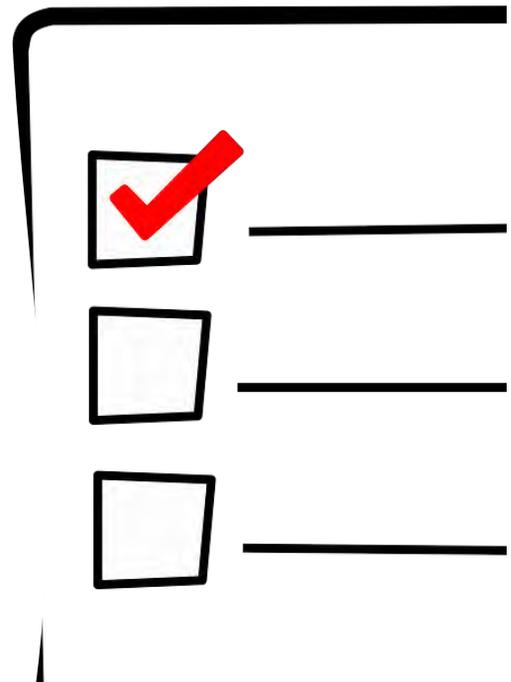


WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

11

## Water Options – Clarifications

- **Municipal water** – preferred long-term solution
  - No O&M for individual residents
  - Water quality and availability is consistent over time
  - Preferred outcome for JCI/Tyco and DNR
- **POETS** – effective solution; challenges for long-term
  - Extensive O&M required
  - May be expensive
  - No mechanism to ensure water quality protections are in place after sale of property
- **Deep Wells** – contamination may still be an issue
  - Limited deep aquifer investigation (unknown if PFAS are presently at those depths or could be in the future)
  - Other aesthetic and water quality issues that could require treatment (e.g. iron, manganese, sulfates, radium)
  - May have limited capacity to supply water



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

12

## DNR's Role

- Provide regulatory oversight of responsible parties
- Oversee responsible party actions
- Review submittals and provide technical comments
- Work with TOP Town Board to answer questions about next steps with long-term water



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

13

## DNR Cannot:

- Select the long-term water option for the community
- Require that a municipality provide water to impacted residents outside their service area
- Negotiate an agreement between communities
- Manage a trust fund set up by an RP



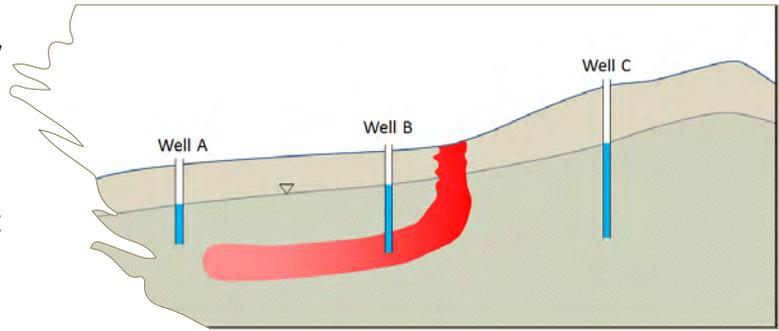
WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

14

## JCI/Tyco's Responsibility

### Follow applicable state laws:

- Determine extent of contamination – close significant data gaps
  - *Critical for determining who needs long term water supply*
  - *Site Investigation is not yet complete*
- Provide immediate and interim solutions to address contamination
  - Bottled water + POETS to impacted residents
  - In-stream Treatment Systems
  - Pump and Treat System



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

15

## JCI/Tyco's Responsibility

### Follow applicable state laws (cont.):

- Conduct an evaluation of the long-term water options available
  - Resubmit RAOR
  - Proposed solution must consider many factors *and* be fully implementable
  - Get options evaluation approved
  - Develop Remedial Action Plan
- Develop a plan to address/clean-up contamination (restore the environment)



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

16

## TOP Role

- If the Town's preference is to receive water from a nearby municipality
  - Write a letter specifically requesting water from the municipality
  - Begin discussions with municipality
- Engage with impacted residents to determine desired long-term water solution

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

17

## Role of Impacted Residents

- Participate in public meetings – the voice of impacted residents needs to be heard
- Learn about which options provide the greatest long-term protection against contamination
  - Municipal water
  - POETS
  - Deep Wells
- Provide input to Town leadership on preferred options

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

18

## What's Happened So Far?

- JCI/Tyco analysis of 8 alternatives – submitted report (RAOR) in May 2019 and October 2019
  - Identified City of Marinette municipal water as most feasible option and preference
- DNR responses:
  - RAOR not approved (July 2019 and Dec 2019)
  - *Is it implementable?*
  - Resident engagement must happen
  - Do not leave affected citizens out of a permanent solution based on projections of impacts
- JCI/Tyco has paid for TOP third party environmental evaluation of municipal solutions
- Other

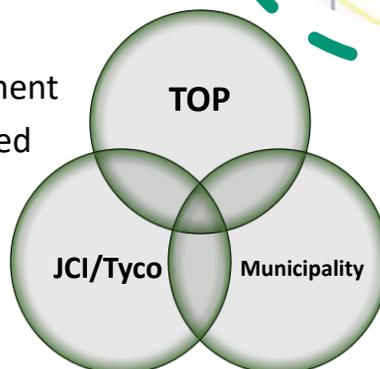


WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

19

## What's Next

- JCI/Tyco needs to submit a complete RAOR report evaluating water options for approval by DNR
- Neighboring communities would need an intergovernmental agreement
- Once solution is determined and agreed upon....
  - *Public Engagement*
  - Design
  - Permitting
  - Construction



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

20

# DNR Potable Well Sampling Program

21

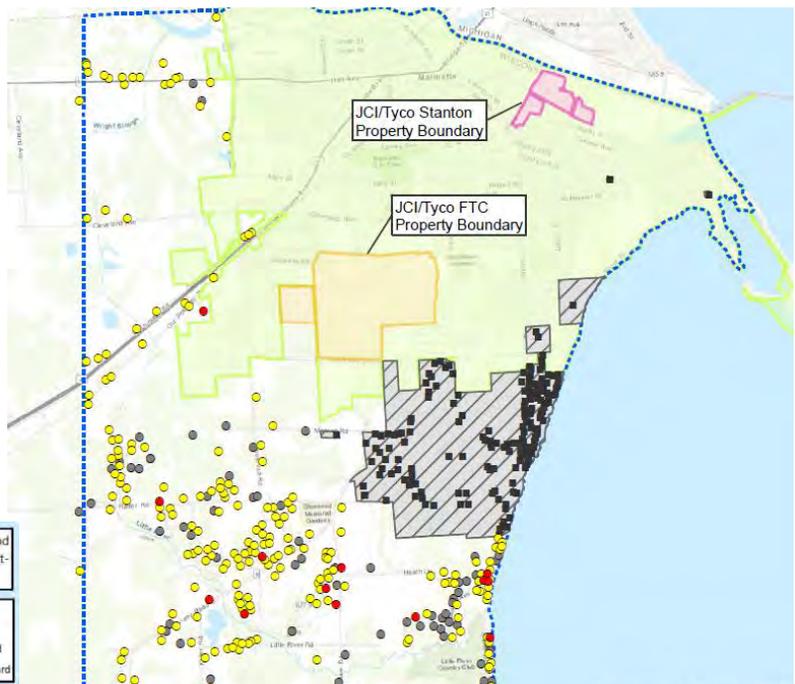
## DNR Potable Well Sampling Program

### Background

- Sampling started fall 2020 - expanded site investigation area
- Inform residents about potential PFAS in drinking water wells
- 307 wells sampled to date
  - ND: 77 wells
  - < RES: 216 wells
  - ≥ RES: 14 wells

Sample results colored in accordance with Dept. of Health Services Cycle 10 and Cycle 11 recommended groundwater standards, including the sum of FOSA, NET-FOSA, NET-FOSA, NETFOSAA, PFOS, PFOA.

Expanded Site Investigation Area Results	
● Non-detect	● Less than Recommended Enforcement Standard
● At or Above Recommended Enforcement Standard	



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

22



# DNR Potable Well Sampling Program

## Resume Sampling March – June 2021

- *Not completed Last Fall*
  - Indoor access only
  - Seasonal properties
- *Second Round Sampling*
  - 200+ residents that we have not heard from yet
  - Second mailer sent – request to sample potable wells
  - Respond by April 2<sup>nd</sup>, 2021

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

23

# DNR Potable Well Sampling Program

## Confirmation Sampling

- Re-sampling wells already tested
- Wells with sample results between 10% RES\* and RES
- Example:
  - PFOS RES = 20 ppt
  - PFOS in well between 2ppt and 19.99ppt will be resampled
- For all 18 PFAS with recommended standards
- 100+ properties – more as sampling continues

\*RES = Recommended Enforcement Standard



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

24

## DNR Potable Well Sampling Program

- *Responsible party – ESIA*
  - DNR sampling due to JCI/Tyco refusal
  - What happens next – JCI/Tyco needs to take on responsibility
- *Alternative water supply to impacted wells*
  - 6-month water supply extended if JCI/Tyco does not take responsibility



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

25



26

## DNR Response to JCI/Tyco's Air Pathway Evaluation

- DNR Identified 5 Data Gaps
- JCI/Tyco to Submit Work Plan to Address the Data Gaps (due April 26<sup>th</sup>)
- Critical Piece of the Site Investigation



### Why Important?

PFAS migration in air is possible, & PFAS impacts from air may have a unique pattern that differs from the primary groundwater plume

DNR's February 23, 2021 Response to JCI/Tyco on the Air Pathway can be found at link below:

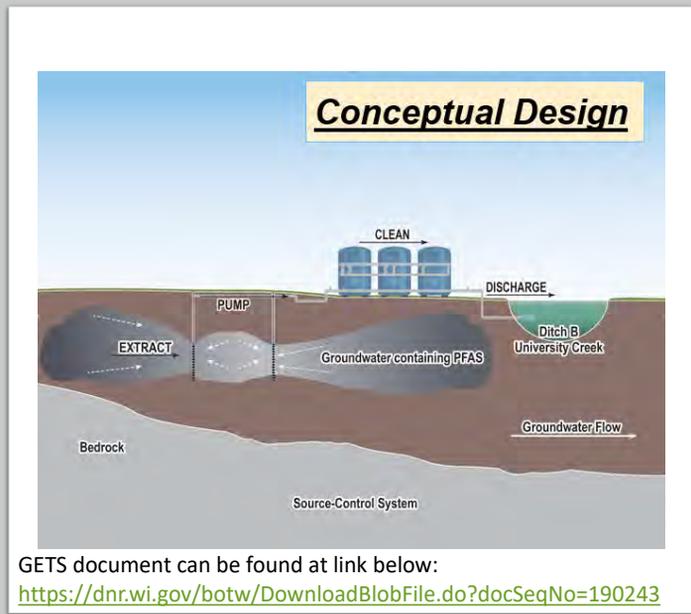
<https://dnr.wi.gov/botw/DownloadBlobFile.do?docSeqNo=190316>

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

27

## JCI/Tyco's Proposed (GETS)

- Groundwater Extraction and Treatment System
- Design Report Received February 26<sup>th</sup>
- DNR RR Program Reviewing
- Other DNR Program Permits (Pending Submittal)
  - Wetlands
  - WPDES Discharge
  - Hi-Cap Well Application

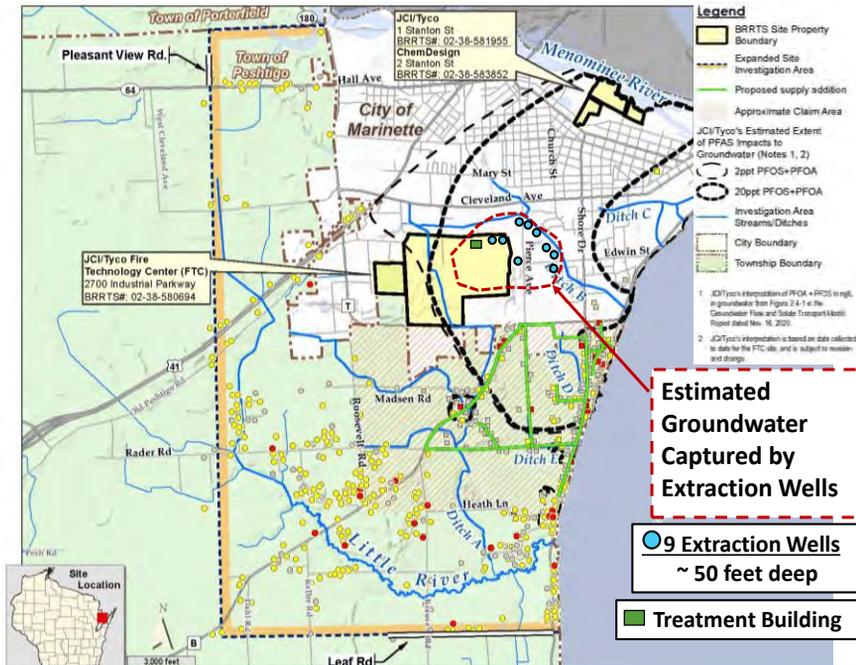


GETS document can be found at link below:

<https://dnr.wi.gov/botw/DownloadBlobFile.do?docSeqNo=190243>

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

28



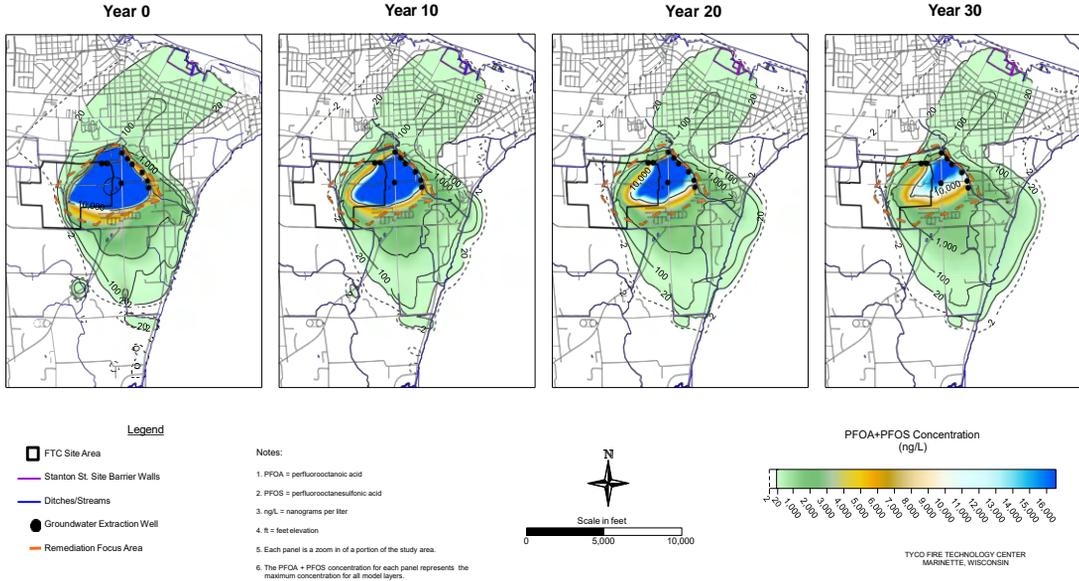
### JCI/Tyco's Proposed Groundwater Extraction & Treatment System (GETS)

- 1. Extraction**
  - Nine Wells ~ 50 ft deep
  - Pump ~ 25 gpm/well
  - Pipe to Treatment Bldg
- 2. Treatment**
  - Filter
  - Carbon
  - Ion Exchange Resin
- 3. Discharge**
  - Water to Ditch B
- 4. Long-Term Monitoring**
  - Groundwater
  - Surface Water

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

29

### Excerpt from Appendix B of JCI/Tyco's Remedial Action Design Report



DRAFT - Privileged and Confidential/Attorney Client Communication Prepared Under Direction of Counsel

TOTAL PFOA AND PFOS PLUME EVOLUTION OVER TIME: DESIGN A

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

30

# JCI/Tyco's Groundwater Extraction and Treatment System (GETS)

## WHAT IT CAN DO

- ✓ Capture groundwater near Ditch B
  - ✓ Reduce flow of groundwater into Ditch
  - ✓ Capture groundwater flowing from FTC
- ✓ Remove PFAS from the captured water
- ✓ Discharge treated water back to Ditch B
  - ✓ Keep similar baseflow in Ditch
  - ✓ Lower surface water concentrations in Ditch

## WHAT IT WON'T DO

- Be a comprehensive remedial action
- Will not fix the total plume
- Will not have a direct influence on deep groundwater
- Will not fix private wells
- Will not happen quickly – no time estimate for completion

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

31



Other Updates

32

## Tyco Air Operation Permit Renewal

- 30-day public comment period will begin next week (March 22)
- Public may request a public hearing
- Permit and FAQ doc will be posted under the actions tab on the [Marinette/Peshigo webpage](#)
- Message will be sent out to JCI subscriber list



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

33



- Surface water and fish data : [Data Report Available](#) (issued Nov 2020)
- Health Guide for Eating Fish in WI: [Choose Wisely](#)
- Green Bay and Menomonie River: [PCB advisories in place](#)

## Fish Data

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

34

# Upcoming Important Dates

## March

- Draft air permit available for public comment on **March 22, 2021**

## Other

- Public comment opportunities for permits associated with the GETS

## May

- Next Listening Session

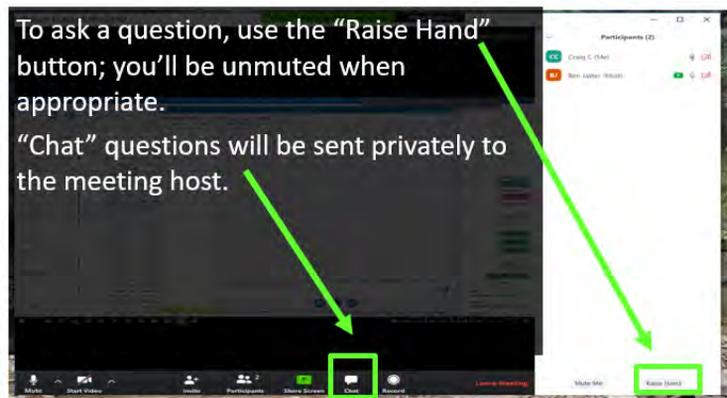
**Get updates →**

**→ Join email subscription list**



WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

35



- Use the 'chat' feature *or* 'raise hand' feature to request to be unmuted to ask a call
- If you are joining by phone:
  - \*9 raise hand
  - \*6 unmute/mute

## Ground Rules – Listening Session

- 3-mins per person → everyone has the opportunity to voice concerns
- Keep comments constructive
- Attack the problem not the person

WISCONSIN DEPARTMENT OF NATURAL RESOURCES | DNR.WI.GOV

36

# CONNECT WITH US

Call: (888-626-3244)

Email:  
[DNRJCIPFAS@wisconsin.gov](mailto:DNRJCIPFAS@wisconsin.gov)

